

Seneca Nation of Indians

Strategic Energy Resource Plan

DOE “First Steps Towards Developing Renewable Energy & Energy Efficiency” Grant Project Review

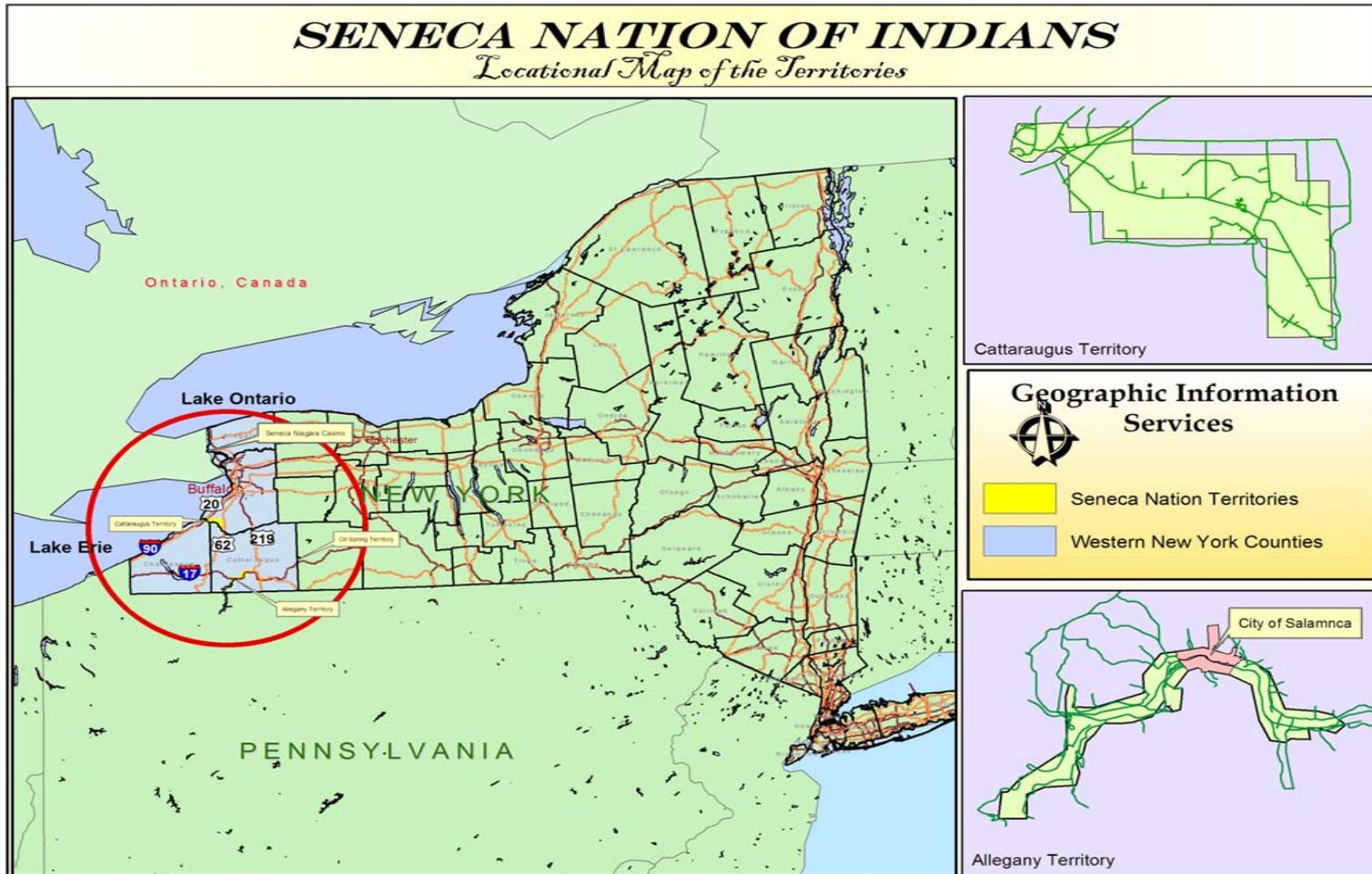
October 20, 2004

Golden, Colorado

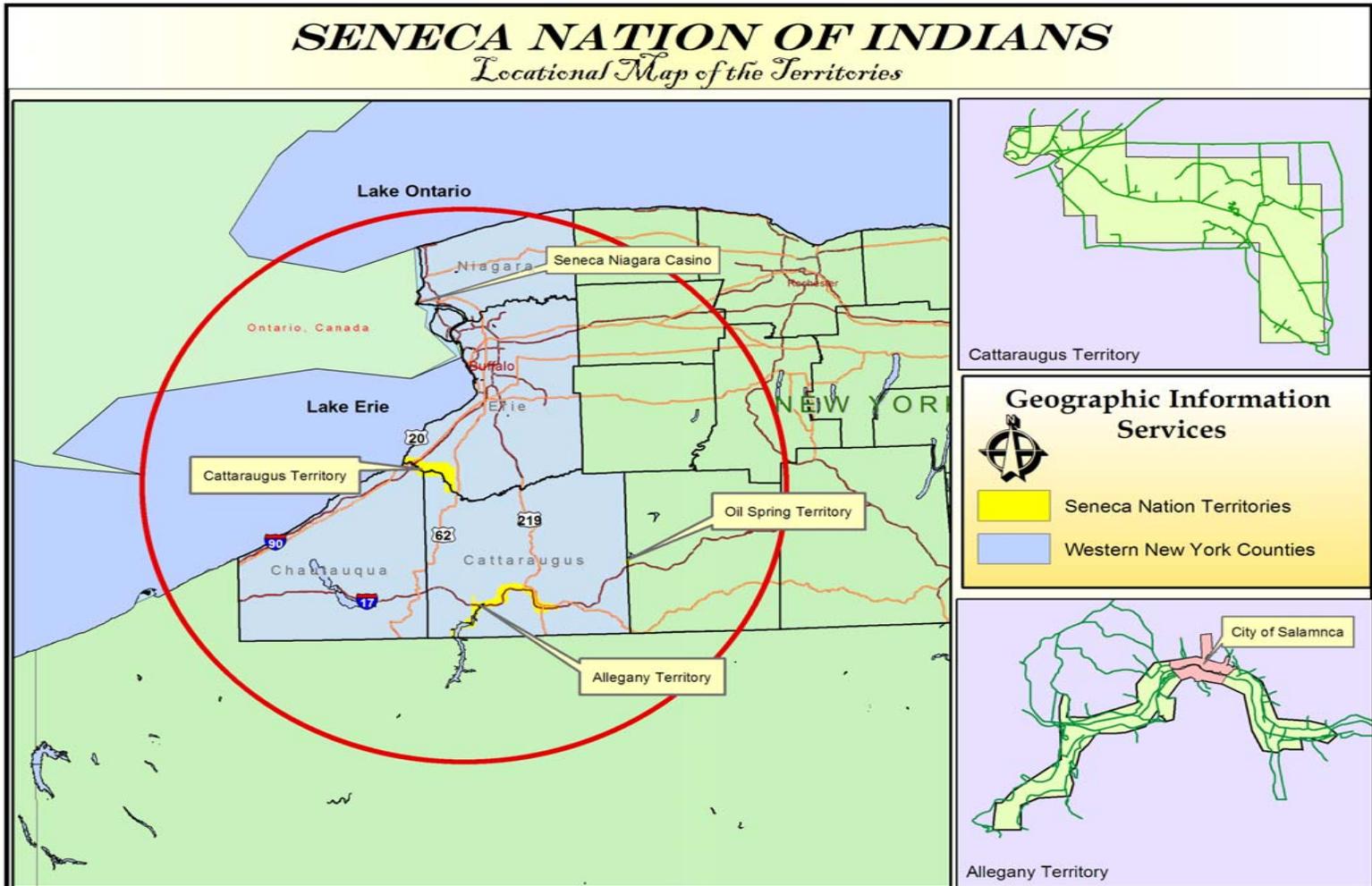
Project Overview

- Long Range Energy Plan – Three Phase Development
 - Phase I – Visioning Process
Community/Stakeholders; SWOT Analysis
 - Phase II – Energy Audit, Resource Assessment, Organizational Development
 - Phase III – Generation Assessment & Development Plan

Project Location



Project Location



Project Partnerships

■ Plan Developers

- Seneca Nation of Indians Tribal Council
 - Tribal Councilor
 - Planning Commission representative
- SNI Administration
 - Community Planning & Development Dept.
 - Utilities Dept.
 - Environmental Protection Dept.
- US Dept. of Energy/EERE/NREL
- Local Utilities
- Consultants – Nast a Peme Consulting
 - RJB Engineering

Objectives

- To develop a long range energy plan to guide the energy resource management, conservation, and development consistent with the Seneca vision for energy self-sufficiency & environmental stewardship.
 - Secondary Goals :
 - Economic Development
 - Heightened Quality of Life
 - Improved Revenue Streams

Planning Overview

1. Define Nation's Vision, Goals & Priorities
2. Identify/Inventory Resources
3. Complete Energy Audit
4. Develop Strategy to maximize responsible production of natural gas resources while addressing environmental concerns
5. Assess environmental and production issues pertaining to natural gas resources

Continued...

Planning Overview, cont.

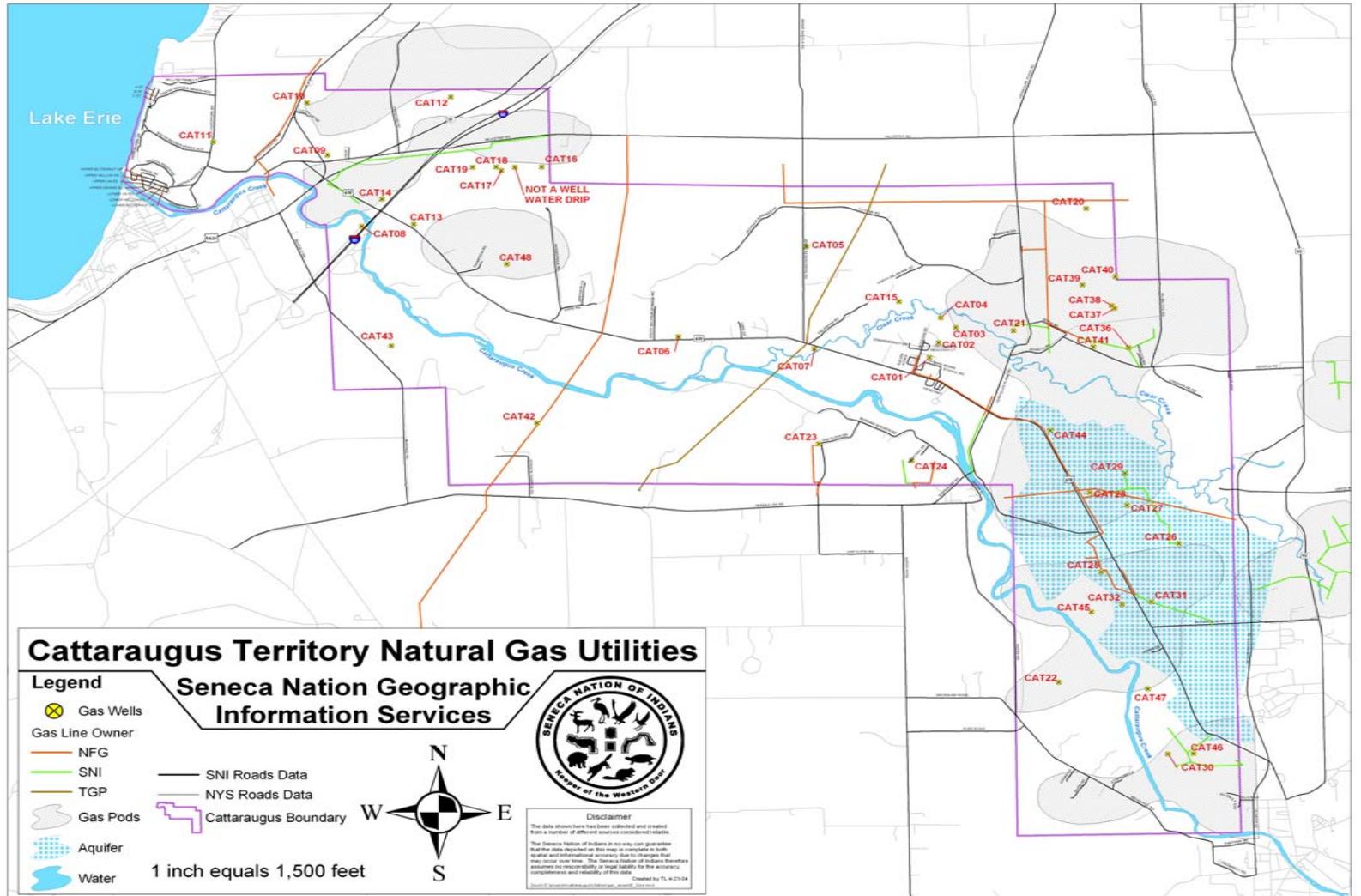
6. Define Development Portfolio – renewables & non-renewables
7. Assess Economic Viability of generation/co-gen projects
8. Develop Org. Structure, policies/procedures, codes & ordinances to support long term goals
9. Create Action Plan for achieving long term goals

Project Status

- Visioning Process Complete
- Gas Assessment – On-going
 - Well inventory
 - Remediation, P&A, Data Analysis
 - Review of provider Agrmts, ROWs
 - Assessment of Gas Dept. Privatization

Cont....

Natural Gas Resources

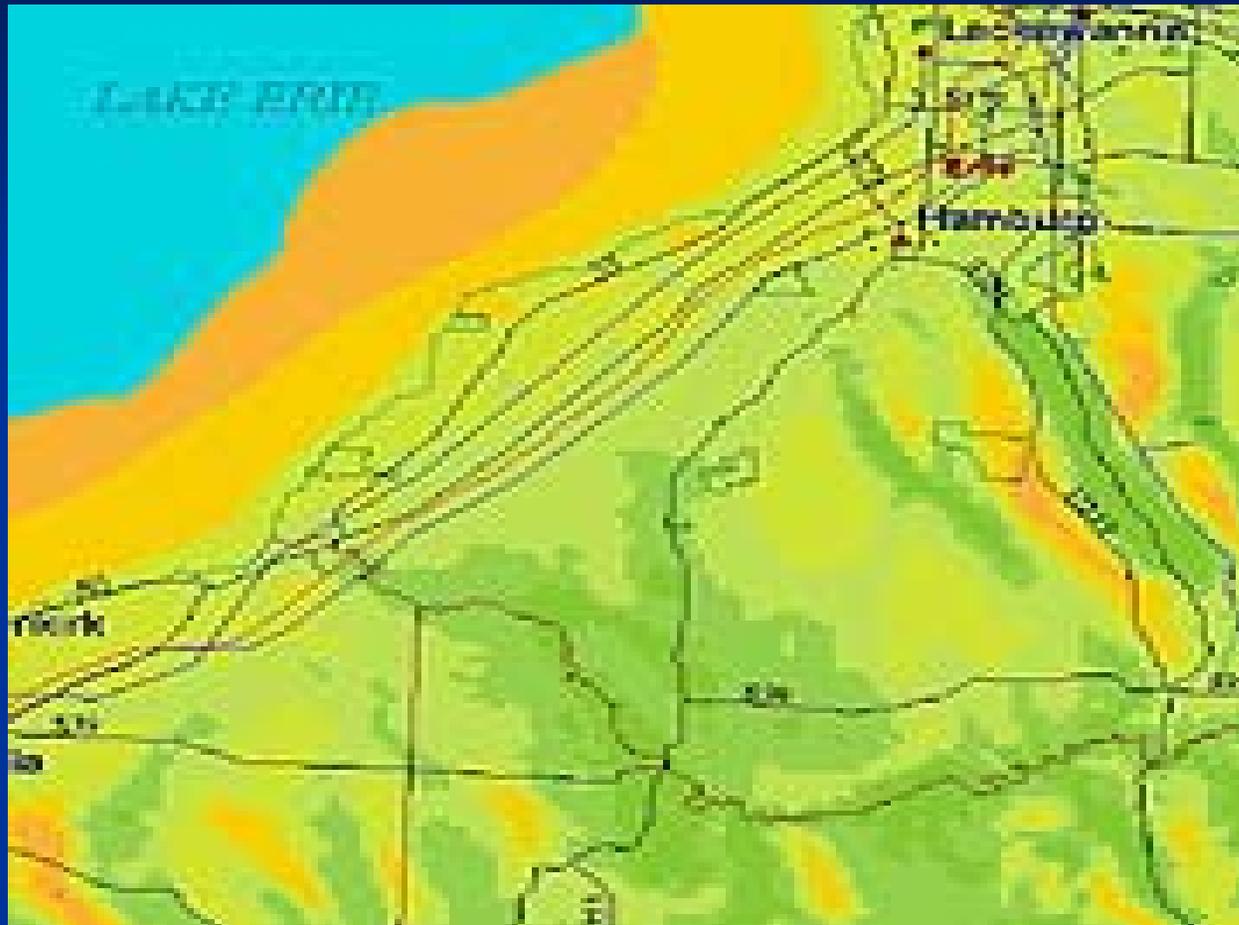


Project Status, cont.

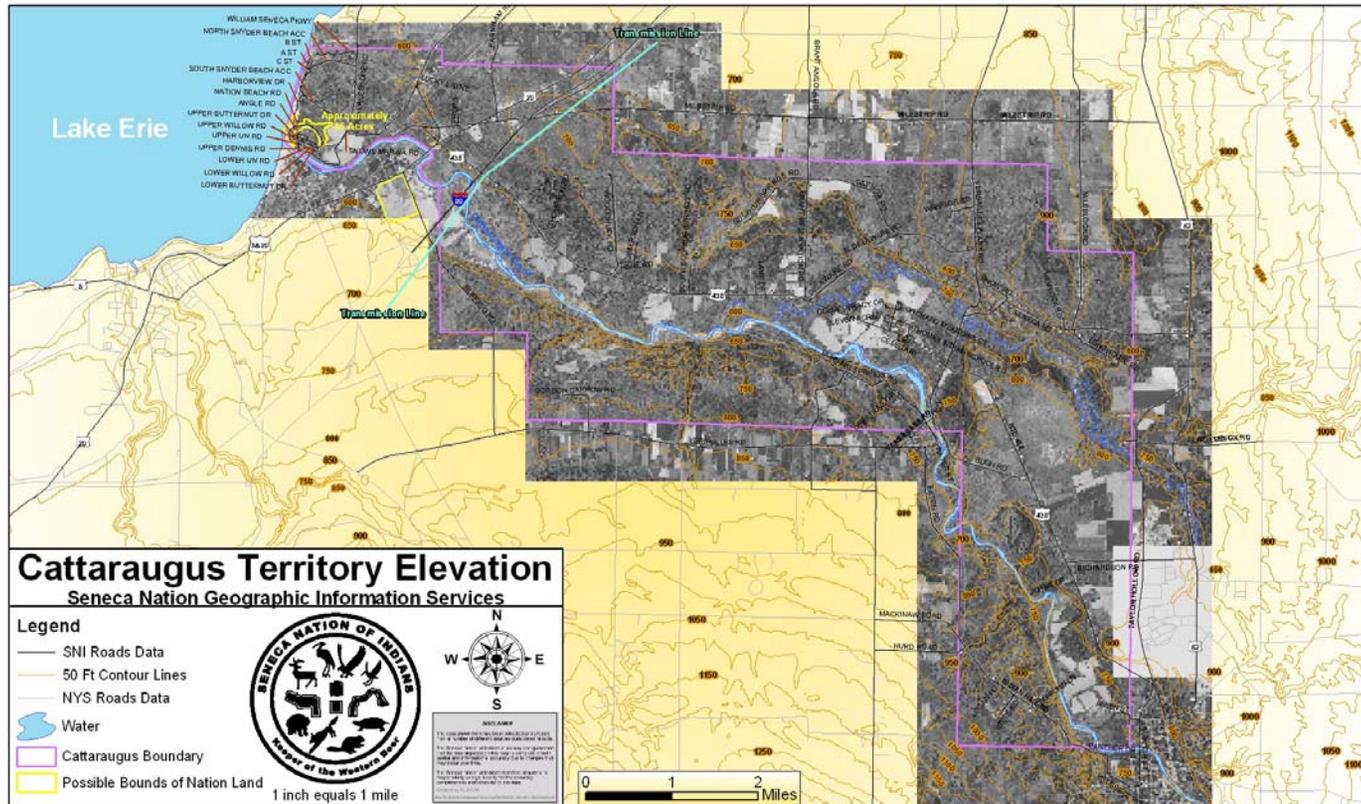
- Energy Audit
 - Current usage, rate analysis
 - Projected Demand
 - Contingency Analysis (Hydro vs. NiMo)

- Renewable Assessment
 - Anemometer Loan App.
 - Industry/mkt overview
 - Maps

True Winds Map



Cattaraugus Territory Site Map



Proposed Beach Site

Waterfront Development Area
Aerial Photography - '2000

*Use 1980 Seneca Nation Soil Survey References

Lake Erie

Approximately
46 Acres



Disclaimer

The data shown here has been collected and created from a number of different sources considered reliable.

The Seneca Nation of Indians in no way can guarantee that the data depicted on this map is complete in both spatial and informational accuracy due to changes that may occur over time. The Seneca Nation of Indians therefore assumes no responsibility or legal liability for the accuracy, completeness and reliability of this data.

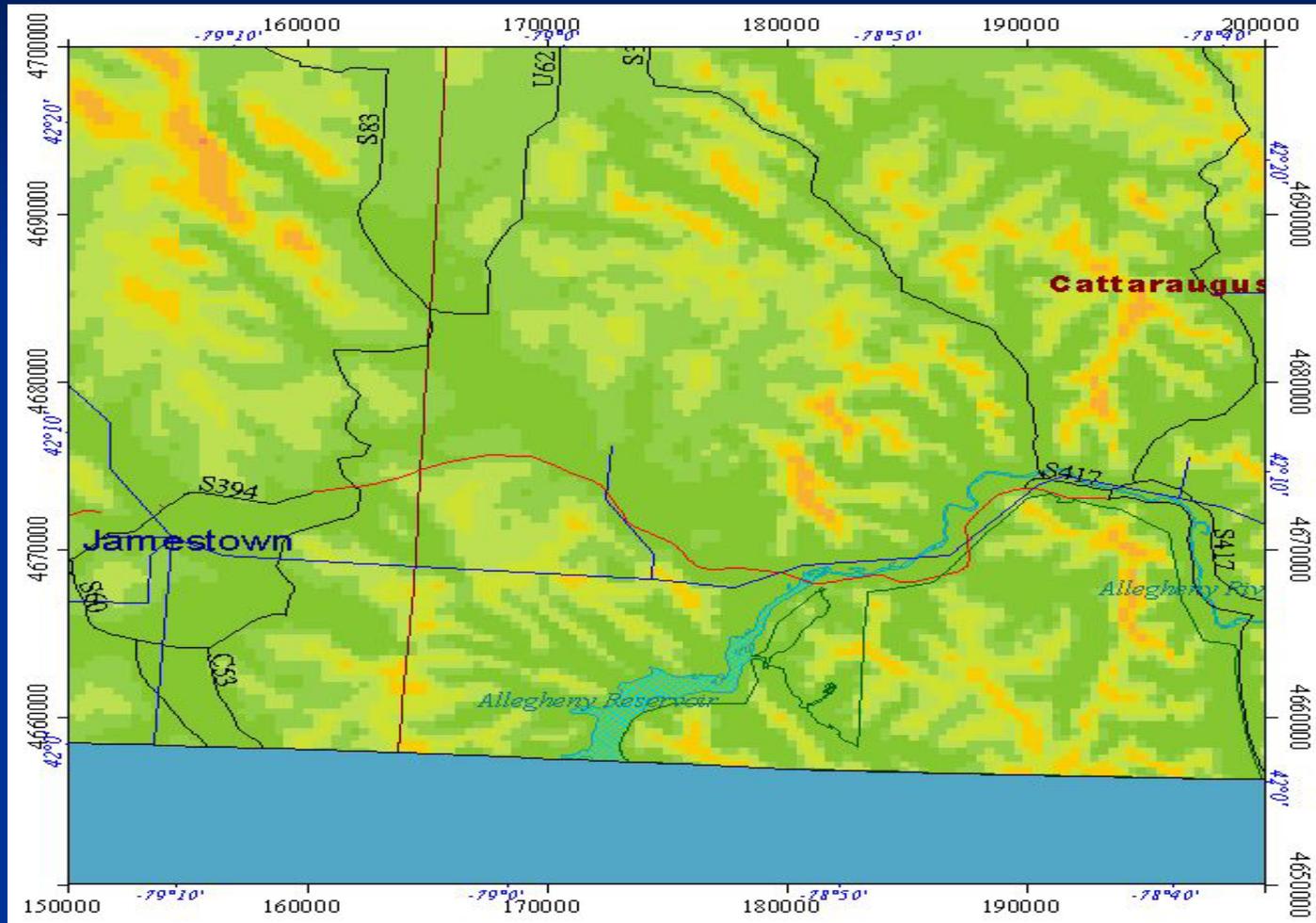
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Seneca Nation Geographic Information Services

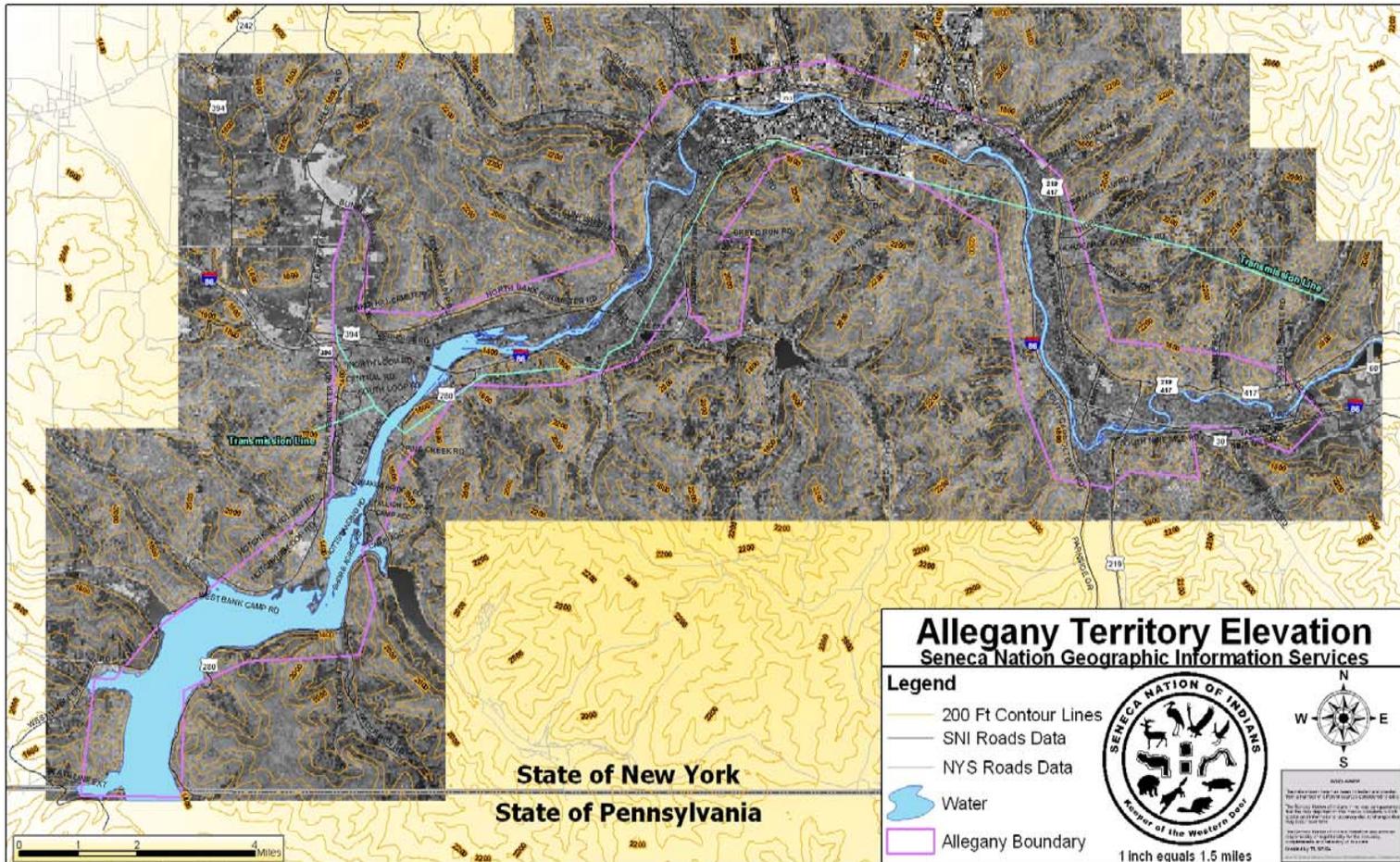
-  Possible Bounds of Nation Land
-  Cattaraugus Territory Boundary
-  Soil Types
-  SNI Roads Data
-  Structures



True Winds - Allegany



Allegheny Territory Site Maps



Project Status, cont.

- Geothermal Assessment
 - SNI Preschool Project
 - Salamanca Central School District Project
 - Feasibility of Expanded Geothermal Use in Administrative Complexes, Resort Development

Issues/Challenges/Lessons

- Lack of personnel/technical knowledge
 - The wearing of many hats, juggling of many priorities
- Timelines
 - Need to have a champion in tribal government to help move process & engender cooperation
 - Things aren't always as straight-forward as they seem; figure in some extra time
- Technical Knowledge
 - Steep learning curve – budget high for training
- Coordination/Cooperation
 - Can be an overwhelming issue

Technical Assistance Request

- Wind Resource Assessment
 - Micro-siting and prioritizing
 - Transmission study/Project scoping
- Geothermal Assessment
 - Issue identification & review
 - Preliminary Feasibility Analysis

Next Steps

- Continue Capacity Building
- Complete Renewable Assessments & Economics Studies
- Continue Gas well remediation & Increase Pdtn. Capacity
- Initiate Tribal Utility Formation & Long Term Plan
- Implement Energy Codes & Ordinances
- Renegotiate Purchase Agreements, ROWs, & hydro allocation
- Assess Generation Project Development